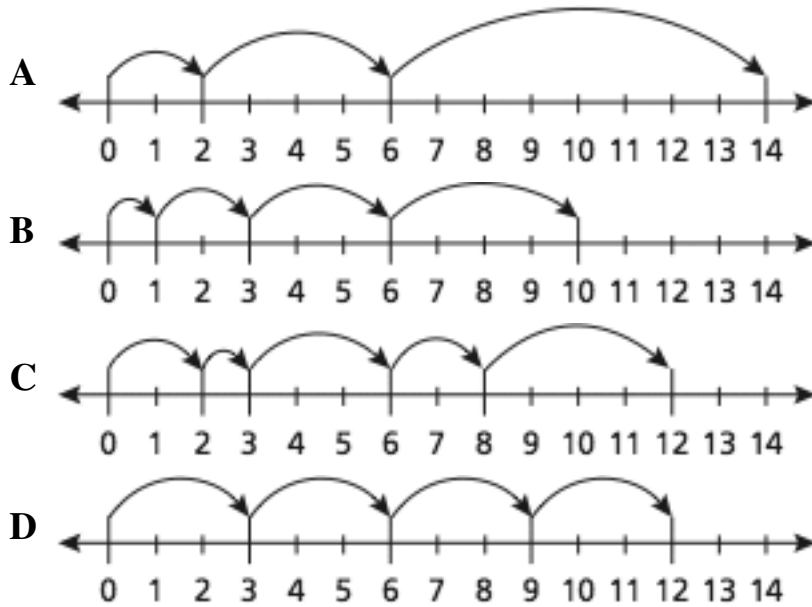


1 Which number line shows multiplication?



2 Look at this number sentence.

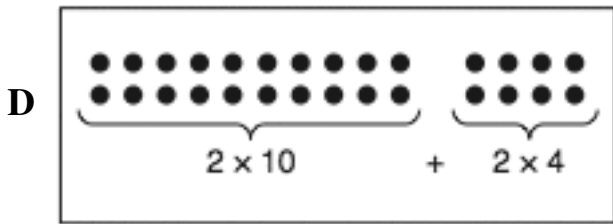
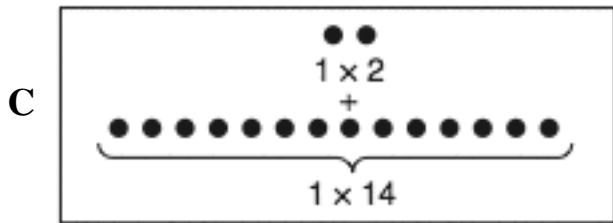
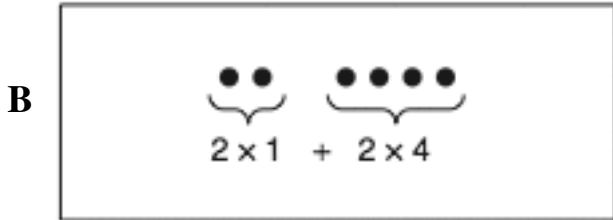
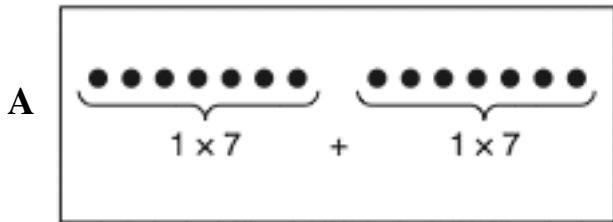
$$6 + 6 + 6 = \square$$

Write a multiplication sentence that means the same as this number sentence.

3 Compute: $80 \times 4 =$

Write your answer in the Answer Box below.

4 Which model shows a way to multiply 2 by 14?



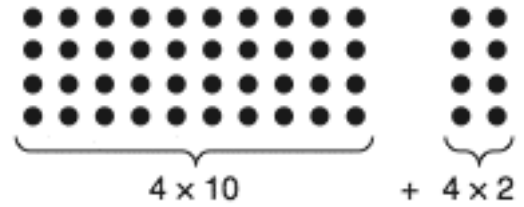
5 Which statement is always true?

- A even number $\times 2 =$ even number
- B odd number $\times 2 =$ odd number
- C even number $\times 3 =$ odd number
- D odd number $\times 3 =$ even number

6 Which equation is true?

- A $25 - 15 = 10 \times 0$
- B $25 - 15 = 5 \times 2$
- C $25 - 15 = 5 \times 3$

7 Jack made the model below to solve a problem.



Which problem did Jack solve?

- A $4 + 20 = \square$
- B $4 + 12 = \square$
- C $4 \times 20 = \square$
- D $4 \times 12 = \square$

8 What number goes in the box to make this number sentence true?

$$(7 - 3) \times 5 = 4 \times \square$$

- A 3
- B 4
- C 5
- D 7

9 Which property is represented by the number sentence shown below?

$$6 + (4 + 5) = (6 + 4) + 5$$

- A Commutative Property of Multiplication
- B Associative Property of Addition
- C Commutative Property of Addition
- D Associative Property of Multiplication

10 Jonathan’s plant is 6 inches tall. His plant grows 3 inches in height each week.

How many inches tall will the plant be in 4 weeks? _____

Explain your answer using pictures, words or numbers.

11 Andy has trumpet practice 4 times every month. Each practice lasts 2 hours. What is the total number of hours that Andy will practice in 9 months?

- A 72
- B 156
- C 36
- D 104

12 Which story problem below can be described by the equation $7 \times 4 = 28$?

- A Kim has 4 movies and 7 books. How many movies and books does Kim have in all?
- B Kim has 4 fewer movies than books. How many movies does Kim have?
- C Kim has 4 shelves with 7 books on each shelf. How many books does Kim have in all?
- D Kim has 28 books on 11 shelves. How many books are on each shelf?

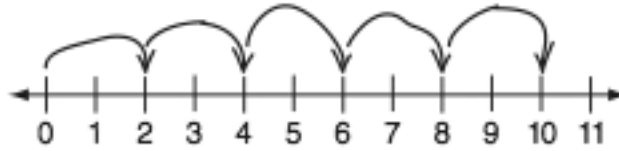
13 Anna rode her bike 2 miles each day for days.

$$2 \times \square = 14$$

What value of makes this number sentence true?

- A 7 days
- B 12 days
- C 16 days
- D 28 days

14 Jamie counted paper clips in groups of 2. He used this number line to show his work.



a) Write an addition sentence Jamie could use to show his work.

b) Write a multiplication sentence Jamie could use to show his work.

15 Raj earns 5 points for each question he answers correctly.

Let p represent the number of questions Raj answers correctly.

Which expression could be used to find the total number of points Raj earns?

- A $p \times 5$
- B $p + 5$
- C $p \div 5$
- D $p - 5$

16 Each number in Set P is related in the same way to the number beside it in Set Q.

Set P	Set Q
3	9
10	30
7	21
50	150

When given a number in Set P, what is one way to find its related number in Set Q?

- A Add 6
- B Add 20
- C Multiply by 2
- D Multiply by 3

17 What number makes this number sentence true?

$$? \times 4 = 36$$

- A 8
- B 9
- C 32
- D 40

18 The chart below shows the number of pencils sold in small and large packs.

Pencils

Pack Size	Number of Pencils
Small	4
Large	8

a) George bought only **small** packs of pencils. Altogether he bought 28 pencils. How many small packs of pencils did George buy? Show or explain how you found your answer.

b) Samantha bought 3 **small** packs of pencils and 5 **large** packs of pencils. How many pencils did she buy in all? Show or explain how you found your answer.

19 Part A

Mario received a \$30 gift card to a bookstore for his birthday. He used it to buy 4 books that cost \$7 each.

Write an equation to show how much money, m , he has left on the gift card after buying the 4 books.

20 Steve bought a package with 5 sheets of stickers in it. Each sheet had 30 stickers. What was the total number of stickers Steve bought?

- A** 37
- B** 150
- C** 180
- D** 1,510

21 Simon has 3 boxes with 8 crayons in each box.

Step A

How many crayons does Simon have?

Answer: _____ crayons

Step B

Explain how you found the number of crayons that Simon has. Use words, numbers, and/or symbols in your answer.

